SYSTEM AND METHOD FOR DETECTING DIFFERENCES BETWEEN COMPLEX IMAGES

ABSTRACT OF THE DISCLOSURE

A system and method for detecting differences between complex images are disclosed. The method includes acquiring a first complex image and a second complex image and determining if an aberration value difference exists between the first and second complex images. The aberration value difference is corrected by iteratively modifying the first complex image by an aberration function and comparing the modified first complex image with the second complex image in a high frequency range. The method further determines if the modified first complex image matches the second complex image by modifying the second complex image with a low frequency ratio to replace low frequency components of the second complex image with low frequency components of the first complex image. The high frequency components of the modified first complex image and the modified second complex images are then compared to determine if the first complex image matches the second complex image.